

LISTING OF THE CLAIMS:

1. (Currently Amended) A combination antenna which is integrated into the an unscrewable head fuse (11) of an item of artillery ammunition for frequencies which are to be processed in the region of the fuse (11) of a radar proximity fuse and a navigational satellite receiver,

wherein a ring disc-shaped slot antenna (17) which is disposed transversely with respect to the fuse axis opens, respectively, radially outwardly through a conical wall of the fuse and inwardly into a resonator ring chamber (28) of having an axial length which is substantially greater than the axial thickness of a slot (13) of the antenna, for operation in addition to the geometrically governed resonance frequency for navigational tasks, at a further resonance frequency for tasks of the radar proximity fuse, said further resonance frequency being tuned to a radar frequency which is substantially higher than the carrier frequency of a navigational satellite system, determined by the a high dielectric constant in the material of an electrically non-conducting hollow cylinder (29) which is introduced into the resonator ring chamber (28) in the absence of representing an integral multiple in relation to the navigational resonance frequency.

2. (Currently Amended) An antenna according to claim 1, wherein in addition to the actual resonator ring chamber (28), the antenna slot (13) which extends about said chamber and extending radially therefrom is also filled with [a] said high dielectric constant material.

3. (Previously Presented) An antenna according to claim 1, wherein integrally with the filling of the ring chamber (28) in the form of the hollow cylinder (29) is a flange-shaped collar (30) which extends thereabout and which extends radially as far as the conical peripheral wall surface of the fuse (11) through the slot (13).

4. (Previously Presented) An antenna according to the claim 1, wherein the collar (30) axially fills the slot (13) and terminates flush with the outside surface of the peripherally slit fuse wall (12).
5. (Previously Presented) An antenna according to claim 1, wherein a frequency-dividing means leads from the slot antenna (17) to a transmitting-receiving unit of a radar fuse.
6. (Previously Presented) An antenna according to claim 1, wherein a two-wire antenna cable is connected to at least two locations, which are disposed axially one in front of the other, at the inside edges of the slot (13), wherein four such connecting locations are provided at the corners of a notional square concentric with respect to the fuse axis and are brought together by a matching network to the standardized impedance of a coaxial line leading to the antenna amplifier.
7. (Previously Presented) An antenna according to claim 6, including a dielectric disc (32) which serves as a wiring carrier for the network between the four mutually orthogonal connections to the inner end of the slot (13) which faces towards the ring chamber (28).
8. (Previously Presented) An antenna according to claim 1, wherein there is provided a circuit carrier disc (32) which has a network for bringing together a plurality of connecting locations disposed along an inner edge of the slot (13) to a wire of an antenna line (20).

9. (Previously Presented) An antenna according to claim 8, wherein the inner edge of the slot (13') is formed by a hoop (35) which is inserted at an end face into one of the hollow-cylindrical walls (27, 31) of the ring chamber (28).